

	Georgia Technology Authority	
Doc Ref Number:	ENT -01-002-STD	Topical Area: Application Development
Document Type:	Enterprise Standard	Page: 1 of 2
Title:	Web-Based Application Development Platforms	
Effective Date:	09/30/02	Revision Date: 6/30/03
POC for Changes:	GTA Technology Office – Chief Architect	
Synopsis:	Establishes enterprise Web-based application development standards.	

PURPOSE

As Web-based application development becomes more complicated and thus increasingly risky; the state must take steps to mitigate this risk. Standardizing on common application development platforms for the creation of new Web-based applications will have the effect of creating an overall expertise in the chosen application development environment and related technologies. This allows professionals throughout the state of Georgia to support and advise each other in the course of developing Web-based applications.

SCOPE

All Agencies, as that term is defined in O.C.G.A. Section 50-25-1 that are developing new Web-based applications shall comply with this standard.

STANDARDS

The following application development platforms are approved for the creation of new Web-based applications:

1. Sun J2EE - Java 2 Enterprise Edition
2. Microsoft .NET

Products:

No specific products are listed or required at this time.

REVIEW CYCLE

6 month full review with continuous monitoring

GUIDELINES

Justification:

The state of Georgia Enterprise Architecture includes a Service-Oriented Architecture (SOA) dependent upon the Web Services protocol. Development of components and backend applications intended for integration in the Web portion of the Enterprise Architecture must be able to communicate via Web

Doc Ref Number:	ENT-01-002-STD	Topical Area: Application Development
Document Type:	Enterprise Standard	Page: 2 of 2
Title:	Web-Based Application Development Platforms	

Services. At present only Java 2 Enterprise Edition and Microsoft .NET development platforms support Web Services for communication.

Technical and Implementation Considerations:

Each platform requires an enterprise server and enterprise server software in the form of an application server. Any implementation should be written to the overall standard, rather than the specific application server in order to provide later flexibility in application server selection, when application standards are developed

Emerging Trends and Architectural Directions:

Web Services are emerging as the dominant method of communication between applications. These protocols are defining the parameters for the future of Enterprise Application Integration and Enterprise Data Integration by transforming application development and data warehousing implementation. Software as a service is a coming paradigm where various functions needed to create applications can be housed anywhere on the network and "snapped together" to create rich functionality.

TERMS AND DEFINITIONS

Application development platforms provide a comprehensive set of services for application development and runtime production. These services provide a stable development platform that allows application developers to focus on their core tasks of developing logic rather than complex system level services.

- 1) J2EE – Java 2 Enterprise Edition is Sun Micro-Systems Web Services development platform.
- 2) Microsoft.Net – Microsoft's Web Services development platform
- 3) Service Oriented Architecture - A SOA is an architecture that has special properties. It is an architecture made up of components and interconnections that stress interoperability and location transparency.